

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/698,705

DATE: 11/13/2000
 TIME: 12:17:45

ENTERED

Input Set : A:\P1777R1.txt
 Output Set: N:\CRF3\11132000\I698705.raw

3 <110> APPLICANT: Devaux, B.
 4 Keller, G.
 5 Koeppe, H.
 6 Lasky, L.
 8 <120> TITLE OF INVENTION: Anti-Tumor Antibody Compositions and Methods of Use
 10 <130> FILE REFERENCE: P1777R1
 W--> 12 <140> CURRENT APPLICATION NUMBER: US/09/698,705
 12 <141> CURRENT FILING DATE: 2000-10-27
 14 <150> PRIOR APPLICATION NUMBER: US 60/162,558
 15 <151> PRIOR FILING DATE: 1999-10-29
 17 <150> PRIOR APPLICATION NUMBER: US 60/182,872
 18 <151> PRIOR FILING DATE: 2000-02-16
 20 <160> NUMBER OF SEQ ID NOS: 25
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 123
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu
 29 1 5 10 15
 31 Gln Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val
 32 20 25 30
 34 Ser Asn Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly
 35 35 40 45
 37 Glu Gln Cys Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr
 38 50 55 60
 40 Val Ile Ser Lys Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln
 41 65 70 75
 43 Asp Tyr Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp
 44 80 85 90
 46 Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala Ala Ala
 47 95 100 105
 49 Ile Leu Ala Leu Leu Pro Ala Leu Gly Leu Leu Trp Gly Pro
 50 110 115 120
 52 Gly Gln Leu
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 372
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Homo sapiens
 60 <400> SEQUENCE: 2
 61 atg aag gct gtg ctg ctg gcc ctg ttg atg gca ggc 36
 62 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly
 63 1 5 10
 65 ttg gcc ctg cag cca ggc act gcc ctg ctg tgc tac tcc 75
 66 Leu Ala Leu Gln Pro Gly Thr Ala Leu Leu Cys Tyr Ser
 67 15 20 25
 69 tgc aaa gcc cag gtg agc aac gag gac tgc ctg cag gtg 114

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70 Cys Lys Ala Gln Val Ser Asn Glu Asp Cys Leu Gln Val
71          30          35
73 gag aac tgc acc cag ctg ggg gag cag tgc tgg acc gcg 153
74 Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys Trp Thr Ala
75      40          45          50
77 cgc atc cgc gca gtt ggc ctc ctg acc gtc atc agc aaa 192
78 Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
79      55          60
81 ggc tgc agc ttg aac tgc gtg gat gac tca cag gac tac 231
82 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr
83      65          70          75
85 tac gtg ggc aag aag aac atc acg tgc tgt gac acc gac 270
86 Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp
87      80          85          90
89 ttg tgc aac gcc agc ggg gcc cat gcc ctg cag ccg gct 309
90 Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala
91          95          100
93 gcc gcc atc ctt gcg ctg ctc cct gca ctc ggc ctg ctg 348
94 Ala Ala Ile Leu Ala Leu Leu Pro Ala Leu Gly Leu Leu
95      105          110          115
97 ctc tgg gga ccc ggc cag cta tag 372
W--> 98 Leu Trp Gly Pro Gly Gln Leu Xaa
99          120          124
101 <210> SEQ ID NO: 3
102 <211> LENGTH: 96
103 <212> TYPE: PRT
104 <213> ORGANISM: Mus musculus
106 <400> SEQUENCE: 3
107 Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
108      1          5          10          15
110 Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln
111          20          25          30
113 Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly
114          35          40          45
116 Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Val Phe Thr
117          50          55          60
119 Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr
120          65          70          75
122 Cys Met Gln His Leu Glu Ser Pro Phe Thr Phe Gly Ser Gly Thr
123          80          85          90
125 Lys Leu Glu Ile Lys Arg
126          95
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 115
130 <212> TYPE: PRT
131 <213> ORGANISM: Mus Musculus
133 <220> FEATURE:
134 <221> NAME/KEY: unsure
135 <222> LOCATION: 46-48, 50-52

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136 <223> OTHER INFORMATION: unknown amino acid

138 <400> SEQUENCE: 4

139 Glu Leu Val Lys Pro Gly Ala Pro Val Lys Leu Ser Cys Lys Ala

140 1 5 10 15

142 Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp Val Lys Gln

143 20 25 30

145 Arg Pro Gly Arg Gly Met Glu Trp Ile Gly Arg Ile Asp Pro Ser

146 35 40 45

W--> 148 Xaa Xaa Xaa Thr Xaa Xaa Gln Thr Phe Lys Asp Lys Ala Thr

149 50 55 60

151 Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Ile Gln Leu Ser

152 65 70 75

154 Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Ile Thr

155 80 85 90

157 Ala Ala Ile Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr

158 95 100 105

160 Val Ser Ser Ala Lys Thr Thr Gly Pro Ser

161 110 115

163 <210> SEQ ID NO: 5

164 <211> LENGTH: 113

165 <212> TYPE: PRT

166 <213> ORGANISM: Mus musculus

168 <400> SEQUENCE: 5

169 Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Pro Val Thr Pro

170 1 5 10 15

172 Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu

173 20 25 30

175 His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro

176 35 40 45

178 Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala

179 50 55 60

181 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala

182 65 70 75

184 Phe Thr Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val

185 80 85 90

187 Tyr Tyr Cys Leu Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly

188 95 100 105

190 Gly Thr Lys Leu Glu Leu Lys Arg

191 110

193 <210> SEQ ID NO: 6

194 <211> LENGTH: 124

195 <212> TYPE: PRT

196 <213> ORGANISM: Mus musculus

198 <400> SEQUENCE: 6

199 Gln Val Gln Val Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly

200 1 5 10 15

202 Ala Pro Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr

203 20 25 30

205 Asn Tyr Trp Leu Asn Trp Val Lys Gln Arg Pro Gly Arg Gly Leu

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206          35          40          45
208 Glu Trp Ile Gly Arg Ile Asp Pro Ser Asp Ser Glu Ile His Tyr
209          50          55          60
211 Asp Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser
212          65          70          75
214 Ser Ser Thr Ala Tyr Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp
215          80          85          90
217 Ser Ala Val Tyr Tyr Cys Ala Leu Thr Gly Ile Tyr Ala Met Ala
218          95          100          105
220 Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr
221          110          115          120
223 Thr Gly Pro Ser
226 <210> SEQ ID NO: 7
227 <211> LENGTH: 113
228 <212> TYPE: PRT
229 <213> ORGANISM: Mus musculus
231 <400> SEQUENCE: 7
232 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile
233   1          5          10          15
235 Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu
236          20          25          30
238 Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro
239          35          40          45
241 Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Thr Leu Asp
242          50          55          60
244 Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
245          65          70          75
247 Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val
248          80          85          90
250 Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly
251          95          100          105
253 Gly Thr Lys Leu Glu Ile Lys Arg
254          110
256 <210> SEQ ID NO: 8
257 <211> LENGTH: 121
258 <212> TYPE: PRT
259 <213> ORGANISM: Mus musculus
261 <400> SEQUENCE: 8
262 Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Glu Lys Pro Gly
263   1          5          10          15
265 Ala Ser Val Lys Ile Ser Cys Lys Pro Ser Gly Asn Ser Phe Thr
266          20          25          30
268 Gly Tyr Tyr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu
269          35          40          45
271 Glu Trp Ile Gly Arg Val Asp Pro Asn Asn Gly Phe Thr Ser Tyr
272          50          55          60
274 Asn Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser
275          65          70          75
277 Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp

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```

278          80          85          90
280 Ser Ala Val Tyr Tyr Cys Val Gly Asn Phe Phe Asp Ser Trp Gly
281          95          100          105
283 Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Gly Pro
284          110          115          120
286 Ser
289 <210> SEQ ID NO: 9
290 <211> LENGTH: 118
291 <212> TYPE: PRT
292 <213> ORGANISM: Mus musculus
294 <400> SEQUENCE: 9
295 Pro Gly Ala Glu Leu Val Lys Pro Gly Ala Pro Val Lys Leu Ser
296 1 5 10 15
298 Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp
299 20 25 30
301 Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp Ile Gly Arg Ile
302 35 40 45
304 Asp Pro Ser Asp Ser Glu Thr Gln Tyr Asn Gln Thr Phe Lys Asp
305 50 55 60
307 Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Ile
308 65 70 75
310 Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
311 80 85 90
313 Ala Ile Thr Ala Ala Ile Ala Met Asp Tyr Trp Gly Gln Gly Thr
314 95 100 105
316 Ser Val Thr Val Ser Ser Ala Lys Thr Thr Gly Pro Ser
317 110 115
319 <210> SEQ ID NO: 10
320 <211> LENGTH: 238
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: sequence is chimeric mouse/human
327 <400> SEQUENCE: 10
328 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr
329 1 5 10 15
331 Gly Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val
332 20 25 30
334 Pro Val Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser
335 35 40 45
337 Lys Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe
338 50 55 60
340 Leu Gln Arg Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met
341 65 70 75
343 Ser Asn Leu Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly
344 80 85 90
346 Ser Gly Thr Ala Phe Thr Leu Arg Ile Ser Arg Val Glu Ala Glu
347 95 100 105
349 Asp Val Gly Val Tyr Tyr Cys Leu Gln His Leu Glu Tyr Pro Tyr

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VERIFICATION SUMMARY

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Input Set : A:\P1777R1.txt

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L:12 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.
L:98 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:98 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:98 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:98 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:98 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4